

Haskell County

Estimated Economic Impact of Agriculture, Food, and Food Processing Sectors

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8 agriculture, food, and food processing sectors were analyzed to determine their overall contribution to the Haskell County economy.¹

These 8 sectors have a total direct output of approximately \$798 million and support 1,097.2 jobs in Haskell County. Running the model for all 8 sectors simultaneously produces the following results:

Agriculture Contribution in Haskell Co						
Impact Type ²	Employment	% Employment	Total Value Added ³	% of Gross Regional Product ⁴	Output ⁵	% of Gross Regional Product
Direct Effect	1,097.2	38%	141,810,065.5	57%	797,570,935.2	320%
Indirect Effect	194.9	7%	17,774,053.4	7%	32,645,329.8	13%
Induced Effect	196.1	7%	14,708,650.6	6%	23,460,168.1	9%
Total Effect	1,488.2	51%	174,292,769.5	70%	853,676,433.1	343%

As shown in the above table, agriculture, food, and food processing supports 1,488.2 jobs, or 51% of the entire workforce in the county. These industries provide a total economic contribution of approximately \$854 million, roughly 343% of Gross Region Product (GRP). As noted below in the calculation of Gross Regional Product, imports and institutional sales are subtracted. Therefore, counties that import a relatively large amount of goods and services will have a reduced GRP which may lead to agricultural output being greater than GRP.

Another metric used to calculate the importance of sectors in an economy is their value added as a percentage of GRP. Total value added by the 8 agriculture, food, and food processing sectors is approximately \$174 million, or 70% of the GRP. This indicates that personal income, business income, and taxes generated by these sectors account for 70% of the total economy.

¹ Article on building a contribution analysis in IMPLAN that avoids double counting:

http://www.implan.com/index.php?option=com_content&view=article&id=660%3A660&catid=253%3AKB33&Itemid=70

² Direct, indirect, and induced effects sum together to estimate the total economic contribution in the state. **Direct effects** capture the contribution from agricultural and food products. **Indirect effects** capture the economic benefit from farms and agricultural businesses purchasing inputs from supporting industries within the state. **Induced effects** capture the benefits created when employees of farms, agricultural businesses, and the supporting industries spend their wages on goods and services within the state.

³ Value added = labor income + indirect business taxes + other property type income.

⁴ GRP = final demand of households + governments expenditures + capital + exports - imports - institutional sales.

⁵ Output = intermediate inputs + value added.

The following tables document the overall summary numbers of the model, top industries affected by employment and output, and a listing of all industries that were analyzed.

In the top ten by employment, Support activities for agriculture and forestry is the top employer in the agriculture industry with 445.7 employees. This table also shows the amount of jobs that are created by the agriculture industry in Haskell County.

Description	Total Employment	Total Output
Support activities for agriculture and forestry	445.7	7,070,165.8
Cattle ranching and farming	391.9	609,651,193.1
Grain farming	232.7	134,380,623.9
Wholesale trade businesses	70.6	12,904,270.0
Offices of physicians, dentists, and other health practitioners	36.8	3,525,666.9
Transport by truck	29.1	4,059,881.7
Securities, commodity contracts, investments, and related activities	25.7	2,893,201.2
Food services and drinking places	22.2	1,082,218.7
Monetary authorities and depository credit intermediation activities	20.6	7,135,859.6
Retail Stores - Food and beverage	19.9	1,059,928.1

The Cattle ranching and farming industry directly contributes approximately \$610 million to Haskell County's economy. This table also shows how much revenue is generated in other industries by having a strong agriculture industry.

Description	Total Employment	Total Output
Cattle ranching and farming	391.9	609,651,193.1
Grain farming	232.7	134,380,623.9
Other animal food manufacturing	19.8	28,788,106.8
Wholesale trade businesses	70.6	12,904,270.0
All other crop farming	2.9	10,674,253.8
Imputed rental activity for owner-occupied dwellings	0.0	7,778,269.7
Monetary authorities and depository credit intermediation activities	20.6	7,135,859.6
Support activities for agriculture and forestry	445.7	7,070,165.8
Oilseed farming	3.1	4,972,968.0
Transport by truck	29.1	4,059,881.7

Below is a summary of all agriculture data with employment levels and output level. These values can tell how many jobs are represented by each agriculture sector and the output they contributed to Haskell County's economy.

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All 105 counties in Kansas have Implan models and agriculture contribution summary. These values do not factor in the retail environment of food sales. Food retail is important, but in order to provide the most accurate picture of what production agricultural and processing contributes to Kansas, the retail sector was omitted.